

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/12/2018

Reviewed on 07/12/2018

1 Identification

- **Product identifier**
- **Trade name:** **Bulk Bond® NP-275**
- **Article number:** BNP275
- **Application of the substance / the mixture** Metal surface treatment
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** Bulk Chemicals Inc.
1074 Stinson Drive
READING, PA 19605
USA
- **Information department:** info@bulkchemicals.us
- **Emergency telephone number:** CHEMTREC 1-800-424-9300, outside US +1-703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.
Carc. 1A H350 May cause cancer.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS05, GHS06, GHS07, GHS08
- **Signal word** Danger
- **Hazard-determining components of labeling:** Chromic acid
- **Hazard statements** Harmful if swallowed.
Toxic if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

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Precautionary statements

May cause genetic defects.
 May cause cancer.
 Suspected of damaging fertility or the unborn child.
 Causes damage to organs through prolonged or repeated exposure.
 Do not breathe dusts or mists.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a poison center/doctor.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 3
 Fire = 0
 Reactivity = 0
 Health = 3
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Other hazards

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

7738-94-5	Chromic acid	≥3-≤10%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
 Remove breathing apparatus only after contaminated clothing have been completely removed.
 In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for doctor.
 In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Check for and remove any contact lenses
 Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Immediately call a doctor.
 Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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- Special hazards arising from the substance or mixture

No further relevant information available.

- Advice for firefighters

- Protective equipment:

Full firefighting gear and SCBA

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions:

Dilute with plenty of water.

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- Protective Action Criteria for Chemicals

- PAC-1:

7664-38-2 phosphoric acid

3 mg/m³

- PAC-2:

7664-38-2 phosphoric acid

30 mg/m³

- PAC-3:

7664-38-2 phosphoric acid

150 mg/m³

7 Handling and storage

- Handling:

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep respiratory protective device available.

- Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles:

No special requirements.

- Information about storage in one common storage facility:

Not required.

- Further information about storage conditions:

Keep receptacle tightly sealed.

- Specific end use(s)

No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems:

No further data; see item 7.

- Control parameters

- Components with limit values that require monitoring at the workplace:

7738-94-5 Chromic acid

PEL Long-term value: 0.005* mg/m³Ceiling limit value: 0.1** mg/m³*as Cr(VI) **as CrO₃; see 29 CFR 1910.1026

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REL	Long-term value: 0.0002 mg/m ³ as Cr; See Pocket Guide Apps. A and C
TLV	Short-term value: NIC-0.0005* mg/m ³ Long-term value: (0.05) NIC-0.0002* mg/m ³ as Cr; *inhalable, BEI, NIC-Skin, DSEN, RSEN
· Additional information:	The lists that were valid during the creation were used as basis.
· Exposure controls	
· Personal protective equipment:	
· General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
· Breathing equipment:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· Protection of hands:	Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· Eye protection:	Tightly sealed goggles Faceshield

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value at 15.6 °C (60.1 °F):	2.4
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.

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Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gl
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity	No further relevant information available.
· Chemical stability	
· Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
· Possibility of hazardous reactions	No dangerous reactions known.
· Conditions to avoid	No further relevant information available.
· Incompatible materials:	No further relevant information available.
· Hazardous decomposition products:	No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects	
· Acute toxicity:	
· Primary irritant effect:	
· on the skin:	Caustic effect on skin and mucous membranes.
· on the eye:	Strong caustic effect.
· Sensitization:	Sensitization possible through inhalation. Sensitization possible through skin contact.
· Additional toxicological information:	The product shows the following dangers according to internally approved calculation methods for preparations: Toxic Harmful Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. Carcinogenic. The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
7738-94-5 Chromic acid	1
· NTP (National Toxicology Program)	
7738-94-5 Chromic acid	K
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

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12 Ecological information

· Toxicity	
· Aquatic toxicity:	No further relevant information available.
· Persistence and degradability	No further relevant information available.
· Behavior in environmental systems:	
· Bioaccumulative potential	No further relevant information available.
· Mobility in soil	No further relevant information available.
· Ecotoxicological effects:	
· Remark:	Toxic for fish
· Additional ecological information:	
· General notes:	Must not reach bodies of water or drainage ditch undiluted or unneutralized. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms
· Results of PBT and vPvB assessment	
· PBT:	Not applicable.
· vPvB:	Not applicable.
· Other adverse effects	No further relevant information available.

13 Disposal considerations

· Waste treatment methods	
· Recommendation:	Dispose of waste in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.
	Dispose of containers in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· Uncleaned packagings:	
· Recommendation:	Disposal must be made according to official regulations.
· Recommended cleansing agent:	Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1760
· UN proper shipping name	
· DOT	Corrosive liquids, n.o.s. (Chromic acid)
· ADR	1760 Corrosive liquids, n.o.s. (Chromic acid), ENVIRONMENTALLY HAZARDOUS
· IMDG	CORROSIVE LIQUID, N.O.S. (Chromic acid), MARINE POLLUTANT
· IATA	CORROSIVE LIQUID, N.O.S. (Chromic acid)
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: Chromic acid
· Marine pollutant:	No
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Corrosive substances
· Danger code (Kemler):	886

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· EMS Number:	F-A,S-B
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 0.5 L On cargo aircraft only: 2.5 L
· Remarks:	Reportable Quantity "RQ" required Drums & Totes RQ required for Drums and Totes
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUIDS, N.O.S. (CHROMIC ACID), 8, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara
· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
7738-94-5 Chromic acid
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· TSCA new (21st Century Act) (Substances not listed)
· New Jersey Right to Know
7738-94-5 Chromic acid
7664-38-2 phosphoric acid
· Pennsylvania Right to Know
7738-94-5 Chromic acid
7664-38-2 phosphoric acid
· Proposition 65
· Chemicals known to cause cancer:
7738-94-5 Chromic acid
· Chemicals known to cause reproductive toxicity for females:
7738-94-5 Chromic acid
· Chemicals known to cause reproductive toxicity for males:
7738-94-5 Chromic acid
· Chemicals known to cause developmental toxicity:
7738-94-5 Chromic acid
· Carcinogenic categories
· EPA (Environmental Protection Agency)
7738-94-5 Chromic acid
A(inh), D(oral), K/L(inh), CBD(oral)

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· TLV (Threshold Limit Value established by ACGIH)		
7738-94-5	Chromic acid	A1
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
7738-94-5	Chromic acid	

· **National regulations:**· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:**

Environmental,
Safety and Health
SDS Coordinator

· **Contact:**· **Date of preparation / last revision**

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1A: Carcinogenicity – Category 1A
Repr. 2: Reproductive toxicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1